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# The Biochemical Journal

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- Amoeba proteus**, study of deoxyribonucleic acid in the cytoplasm of (Skreb, Y., Eger, M. & Horvat, D.), 1967, **105**, 53P
- Amorphosporangium auranticolor**, configuration of 2,6-diamino-3-hydroxypimelic acid in cell walls of (Perkins, H. R.), 1969, **115**, 797
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- Androsta-4,16-dien-3-one** in peripheral plasma of adult men (Brooksbank, B. W. L.), 1968, 106, 11P
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- 5 $\alpha$ -Androstan-3-one**, simple kinetic theorem for competition of 5 $\alpha$ -androstan-3,16-dione and, for hydroxy steroid dehydrogenase (Pocklington, T. & Jeffery, J.), 1969, 112, 33I
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- Angiotensinase enzymes**, selective inhibition of, in a rapid simple method for assay of renin in rabbit plasma (Ryan, J. W., McKenzie, J. K. & Lee, M. R.), 1968, **108**, 679
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- Cytosine-5-carboxylic acid ethyl ester**, formation of, by reaction of urethane with ribonucleic acid *in vivo* (Boyland, E. & Williams, K.), 1969, **111**, 121
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- 5-Dehydroshikimate reductase**, properties and distribution of, in the tea plant (*Camellia sinensis* L.) (Sanderson, G. W.), 1966, **98**, 248
- 5-Dehydroshikimic acid**, dehydrogenation of, in the normal route of gallic acid biosynthesis in higher plants (Dewick, P. M. & Haslam, E.), 1969, **113**, 537
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- analysis of ribosomal ribonucleic acids of *Bacillus subtilis* by hybridization with (Avery, R. J. & Midgley, J. E. M.), 1969, **115**, 383
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- multiple polymers of, from *Pseudomonas testosteroni* (Soutar, A. K. & Hassall, H.), 1969, **114**, 79P
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- Histidine decarboxylase**, preparation of, from *Escherichia coli* (Lawson, A. & Quinn, A. G.), 1967, **105**, 483
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- Histone F2(b)**, thymus, calf, interaction of, with deoxyribonucleic acid (Edwards, P. A. & Shooter, K. V.), 1969, **114**, 54P
- Histone F3**, arginine-rich, thiol groups and the heterogeneity of (Phillips, D. M. P.), 1967, **105**, 46P
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- Homocarnosine**, incorporation of [<sup>14</sup>C]histidine into, of frog brain *in vivo* and *in vitro* (Yockey, W. C. & Marshall, F. D.), 1969, **114**, 585
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- Hyaluronic acid**, characterization of the product formed on treatment of, with ascorbic acid (Swann, D. A.), 1969, **114**, 819
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- ribosomal, stimulation of the synthesis of, during induced amphibian metamorphosis (Tata, J. R.), 1967, 105, 783
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- ribosomal, 5S, identity of 'fingerprints' of, from two mouse cell lines with that of human 5S ribosomal ribonucleic acid (Williamson, R. & Brownlee, G. G.), 1969, 114, 29p
- ribosomal, 16S and 23S components in, of *Rhodospseudomonas spheroides* (Szilágyi, J. F.), 1968, 109, 191
- role of replication of, in the multiplication cycle of ME-virus (Hausen, P.), 1965, 94, 1p
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- selective effect of hormones on metabolism of, during germination of pear embryos (Khan, A. A. & Heit, C. E.), 1969, 113, 707
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- Ribonucleic acid, some thoughts and speculations on the synthesis of (Smellie, R. M. S.), 1967, 103, 61p**
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- survey of the effects of metal salts on the synthesis of, and protein in bacteria (Blundell, M. R. & Wild, D. G.), 1969, 115, 207
- synthesis of, associated with induction of nitrate reductase activity in radish cotyledons (Ingle, J.), 1968, 108, 715
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- synthesis of, by liver cells in suspension (Jacob, S. T. & Bhargava, P. M.), 1965, 95, 568
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- synthesis of, in baby-hamster kidney cells in the presence of actinomycin D (Martin, S. J. & Brown, F.), 1967, 105, 979
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- transfer, action of osmium tetroxide on, and correlations between the genetic code and the sensitivity of acceptor activity (Burton, K., Varney, N. F. & Zamecnik, P. C.), 1966, 99, 29c

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- transfer, biological role of (Littauer, U. Z.), 1969, **114**, 28P
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- transfer, conversion of 4-thiouracil in, into *N*<sup>4</sup>-methylcytidine for sequence analysis (Burton, K.), 1969, **114**, 30P
- transfer, effect of hypermethylation on the functional properties of (Pillinger, D. J., Hay, J. & Borek, E.), 1969, **114**, 42P
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- transfer, effect of modification of, *in vitro* (Hay, J.), 1969, **114**, 28P
- transfer, effect of, on the binding of rapidly <sup>14</sup>C-labelled ribonucleic acid to ribosomes (Perzyński, S. & Szafranski, P.), 1967, **103**, 1c
- transfer, inhibition of stimulatory effect of liver template ribonucleic acid by (Aaronson, S. A., Korner, A. & Munro, A. J.), 1966, **101**, 448
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- transfer, oxidation of, by osmium tetroxide (Burton, K.), 1967, **104**, 686
- transfer, peptidyl-, binding site for, on *Escherichia coli* ribosomes (Cannon, M.), 1967, **104**, 934
- transfer, puromycin-initiated release of, from ribosomes of *Escherichia coli* (Cannon, M.), 1966, **98**, 5P
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- activity of, in subfractions of rat liver microsomes (Wilkie, N. M. & Smellie, R. M. S.), 1968, **109**, 229
- characterization of the product of, from isolated rat liver nuclei (Widnell, C. C.), 1965, **95**, 42P
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- deoxyribonucleic acid-dependent, additive effects of thyroid hormone, growth hormone and testosterone on (Widnell, C. C. & Tata, J. R.), 1966, **98**, 621
- deoxyribonucleic acid-dependent, asymmetric transcription of deoxyribonucleic acid by, of Krebs II ascites-tumour cells (Shenkin, A. & Burdon, R. H.), 1966, **98**, 5c
- deoxyribonucleic acid-dependent, effect of aflatoxin B<sub>1</sub> on, *in vitro* (King, A. M. Q. & Nicholson, B. H.), 1967, **104**, 69P
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- determination of molecular weight of, by gel filtration (King, A. M. Q. & Nicholson, B. H.), 1969, **113**, 17P
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- effect of aflatoxin B<sub>1</sub> on (King, A. M. Q. & Nicholson, B. H.), 1969, **114**, 679
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- effect of castration on activity of, in an experimental prostatic tumour (Mainwaring, W. I. P. & Williams, D. C.), 1966, **98**, 836
- effect of cycloheximide on activity of, in rat liver nuclei (Mangan, F. R., Neal, G. E. & Williams, D. C.), 1968, **108**, 44P
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- increase in the activity of, of rat liver nuclei during lactation (Leake, R. E. & Barry, J. M.), 1967, **104**, 41P
- inhibition of, by acridines (Nicholson, B. H. & Peacocke, A. R.), 1966, **100**, 50
- liver, rat, effect of inhibitors of protein and nucleic acid synthesis on the stimulation of, by growth hormone (Pegg, A. E. & Korner, A.), 1966, **100**, 75P
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- tritium-exchange studies on transcription of deoxyribonucleic acid by (Hewitt, R. & Nicholson, B. H.), 1969, **113, 16** P
- Ribonucleic acid (transfer) nucleotidyltransferase**, liver, rat, altered specificity of, in the presence of manganese ions (Klemperer, H. G. & Haynes, G. R.), 1967, **104, 53** 7
- Ribonucleic acids**, a possible method for characterizing the secondary structure of (Cox, R. A.), 1966, **100, 146**
- alkylation of, of the rat by *N*-methyl-*N*-nitrosourea, dimethylnitrosamine, dimethyl sulphate and methyl methanesulphonate (Swann, P. F. & Magee, P. N.), 1968, **110, 39**
- comparison of, synthesized by purified ribonucleic acid polymerases from *Micrococcus lysodeikticus* and *Escherichia coli* from a template of bacteriophage T4 deoxyribonucleic acid (Bishop, J. O. & Robertson, F. W.), 1969, **115, 35** 3
- effect of phytohaemagglutinin on the synthesis of, in lymphocytes (Kay, J. E.), 1967, **104, 66** P
- effect of reaction with formaldehyde on sedimentation rates of (Fenwick, M. L.), 1968, **107, 85** 1
- fractionation of, by zonal ultracentrifugation (Kirby, K. S., Hastings, J. R. B., Parish, J. H. & Klucis, E. S.), 1965, **97, 25** P
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- hydration of (Lewin, S.), 1965, **95, 44** P
- incorporation of [5-<sup>3</sup>H]uridine into, during phytohaemagglutinin-induced activation and transformation of lymphocytes (Forsdyke, D. R.), 1968, **107, 19** 7
- inferences on the conformation of, in *Escherichia coli* ribosomes from the mode of action of ribonuclease II (Artman, M., Silman, N. & Engelberg, H.), 1967, **104, 87** 8
- interactions of, with proteins in a two-phase system containing phenol and aqueous buffers at various pH values (Pusztai, A.), 1966, **99, 93**
- ion-exchange chromatography of a dinucleotide preparation from controlled alkaline hydrolysis of (Sato, K. & Inoue, Y.), 1969, **114, 27** 1
- low-molecular-weight, two distinct, localized within the chloroplasts of *Vicia faba* leaves (Dyer, T. A. & Leech, R. M.), 1967, **102, 6** P
- messenger and ribosomal, synthesis of, in ribosome-depleted *Escherichia coli* (Pigott, G. H. & Midgley, J. E. M.), 1968, **108, 34** P
- occurrence of 7-methylguanine in, of rat liver (Cradock, V. M., Villa-Treviño, S. & Magee, P. N.), 1968, **107, 17** 9
- of *Drosophila melanogaster* (Hastings, J. R. B. & Kirby, K. S.), 1966, **100, 53** 2
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- Ribonucleic acids**, ribosomal, co-ordination of synthesis of, of *Escherichia coli* in 'rapidly labelled' and 'randomly labelled' cultures (Pigott, G. H. & Midgley, J. E. M.), 1968, **108, 33** P
- ribosomal, distribution of, among subcellular fractions from bacteria (Wade, H. E. & Robinson, H. K.), 1965, **96, 75** 3
- ribosomal, 16S and 23S, genetic origins of, of *Escherichia coli* (Avery, R. J. & Midgley, J. E. M.), 1968, **108, 33** P
- ribosomal, 28S and 18S, alternating arrangement of cistrons for, in genome in *Xenopus laevis* (Birnstiel, M.), 1968, **108, 31** P
- ribosomal, 28S and 18S, differential stability of, from rat liver (Venkov, P. V. & Hadjiolov, A. A.), 1969, **115, 9** 1
- 'soluble', electrophoresis in polyacrylamide gels of different preparations of, from *Escherichia coli* (Cannon, M. & Richards, E. G.), 1967, **103, 23** c
- synthesis in the study of (Khorana, H. G.), 1968, **109, 70** 9
- synthesis of, and the formation and distribution of ribosomes during hormone-induced growth and development (Tata, J. R.), 1967, **104, 1**
- synthesis of, during the early action of thyroid hormones (Tata, J. R. & Widnell, C. C.), 1966, **98, 60** 4
- Ribonucleoprotein particles**, and other microsomal components in relation to amino acid incorporation by preparations from the developing rat brain (Lim, L. & Adams, D. H.), 1967, **104, 22** 9
- comparison of Triton and deoxycholate in the preparation of (Hunter, A. R. & Korner, A.), 1966, **100, 73** P
- cytoplasmic, isolation of, from rat uterus, and the principal properties of the cell-free protein-synthesizing system containing them (Teng, C.-S. & Hamilton, T. H.), 1967, **105, 10** 91
- Ribonucleosides**, effect of the addition of deoxyribonucleosides and, on the inhibitory effect of hydroxyurea on deoxyribonucleic acid synthesis (Yarbro, J. W.), 1967, **104, 52** c
- 5'-ribonucleotides and ribonucleic acid, periodate-oxidized, reaction of, with isoniazid (Hunt, J. A.), 1965, **95, 54** 1
- Ribonucleotide homopolymers**, synthesis of, by cytoplasmic enzymes of Landschütz ascites-tumour cells (Wykes, J. R. & Smellie, R. M. S.), 1966, **99, 34** 7
- Ribonucleotide reductase**, reduction of a disulphide bond of, of *Lactobacillus leichmannii* by the dithiol substrate (Vitols, E., Hogenkamp, H. P. C., Brownson, C., Blakley, R. L. & Connellan, J.), 1967, **104, 58** c
- Ribonucleotide reductase system**, characterization of the hydrogen donor in (Reichard, P.), 1964, **92, 28** P
- Ribonucleotides**, incorporation of, by an enzyme preparation from rat liver microsomes (Page, M. G., Haynes, G. R. & Klemperer, H. G.), 1967, **102, 18** 1
- relation of hydrogen exchange between deoxyadenosylcobalamin and water to the role of the coenzyme in the reduction of (Hogenkamp, H. P. C., Ghambeer, R. K., Brownson, C. & Blakley, R. L.), 1967, **103, 5** c
- Ribose**, utilization of glucose in the synthesis of, in *Candida utilis* (Barker, G. R. & Nicholson, B. H.), 1964, **91, 32** 6
- Ribose 5-phosphate 3-epimerase**, measurement of the activity of, and other enzymes of the pentose phosphate pathway (Novello, F. & McLean, P.), 1968, **107, 77** 5

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- occurrence of, in the mucosa of the small intestine (Srivastava, L. M. & Hübner, G.), 1966, **101**, 48
- Ribose 5-phosphorothioate**, preparation and properties of (Murray, A. W., Wong, P. C. L. & Friedrichs, B.), 1969, **112**, 741
- Ribosomal ribonucleic acid**, *see* Ribonucleic acid, ribosomal
- Ribosomes**, accumulation of precursors of, during inhibition of the growth of *Escherichia coli* M.R.E. 600 by cobalt ions (Blundell, M. R. & Wild, D. G.), 1969, **115**, 213
- adverse effect of the bacterial membrane fraction on the stability of (Wade, H. E. & Robinson, H. K.), 1965, **96**, 753
- amino acid incorporation into, prepared from rabbit mammary glands during late pregnancy and lactation (Baird, G. D. & Herriman, I. D.), 1967, **105**, 48P
- and components, inactive, properties of, in rat liver and hepatoma (Webb, T. E. & Morris, H. P.), 1969, **115**, 575
- and other microsomal components in relation to amino acid incorporation by preparations from the developing rat brain (Lim, L. & Adams, D. H.), 1967, **104**, 229
- attachment of rapidly labelled ribonucleic acid to, and stimulation of the incorporation of amino acids into polypeptides in cell-free systems (Wilkinson, B. R. & Kirby, K. S.), 1966, **99**, 786
- bacterial, inhibition of ribosomal ribonuclease by (Wade, H. E. & Robinson, H. K.), 1965, **97**, 747
- bacterial, isolation of histone-like basic protein from (Leaver, J. L. & Craft, H. J.), 1966, **101**, 665
- binding of spermine to, from *Bacillus stearothermophilus* (Stevens, L.), 1969, **113**, 117
- binding site for peptidyl-transfer-ribonucleic acid on, of *Escherichia coli* (Cannon, M.), 1967, **104**, 934
- bound and free, separation and recovery of, from liver (Campbell, P. N. & Lowe, E.), 1964, **92**, 31P
- brain, chromatography on hydroxyapatite of soluble proteins and nucleic acids from (Brunngraber, E. G. & Oecomy, W. G.), 1965, **97**, 689
- cardiac, isolation and properties of (Earl, D. C. N. & Korner, A.), 1965, **94**, 721
- cerebral-cortex, goat, effect of polyamines on stability of (Datta, R. K., Sen, S. & Ghosh, J. J.), 1969, **114**, 847
- chloroplast, stereospecificity of chloramphenicol inhibition of (Ellis, R. J.), 1968, **110**, 42P
- comparative study *in vivo* and *in vitro* of the ability of, from *Xenopus* liver and ovary to incorporate L-[U-<sup>14</sup>C]leucine (Ford, P. J.), 1966, **101**, 369
- comparison of, from interferon-treated and control cells (Kerr, I. M., Martin, E. M., Sonnabend, J. A. & Metz, D. H.), 1969, **114**, 43P
- complex-formation between messenger ribonucleic acid and the ribonucleic acid of (Guérin, M. F., Hayes, D. H. & Soffer, R. L.), 1966, **101**, 256
- 16S and 23S components in ribonucleic acid of, of *Rhodospseudomonas spheroides* (Szilágyi, J. F.), 1968, **109**, 191
- diversity and nature of pools of, in hepatoma 7800 and host liver (Kwan, S.-W., Webb, T. E. & Morris, H. P.), 1968, **109**, 617
- Drosophila melanogaster*, ribonucleic acid of (Hastings, J. R. B. & Kirby, K. S.), 1966, **100**, 532
- effect of ribonuclease on, of bacteria and animal cells (Fenwick, M. L.), 1968, **107**, 481
- Ribosomes**, effect of transfer ribonucleic acid on the binding of rapidly <sup>14</sup>C-labelled ribonucleic acid to (Perzyński, S. & Szafranski, P.), 1967, **103**, 1c
- effects of cortisol on the binding of, to mouse liver microsomal fraction (Cox, R. F. & Mathias, A. P.), 1969, **115**, 777
- effects of polyuridylic acid on phenylalanine incorporation by, from carbon tetrachloride-poisoned rat liver (Smuckler, E. A., Parthier, B. & Hultin, T.), 1968, **107**, 151
- electron-microscopic observations of the distribution of, in dormant and imbibed seeds of *Pisum arvense* (Chapman, J. A. & Rieber, M.), 1967, **105**, 1201
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- factors controlling amino acid incorporation by, from Krebs II mouse ascites-tumour cells (Kerr, I. M., Cohen, N. & Work, T. S.), 1966, **98**, 826
- formation and distribution of, during hormone-induced growth and development (Tata, J. R.), 1967, **104**, 1
- formation, distribution and function of, and microsomal membranes during induced amphibian metamorphosis (Tata, J. R.), 1967, **105**, 783
- formation of rough vesicles by interaction of reticulosomes, phospholipids and (Pollak, J. K.), 1968, **109**, 40P
- free and membrane-bound, of cotyledons of developing and germinating bean seeds (Payne, P. I. & Boulter, D.), 1968, **108**, 44P
- from the blue-green alga *Anabaena variabilis* (Craig, I. W. & Carr, N. G.), 1967, **103**, 64P
- function of, in reticulocyte haemoglobin synthesis (Marks, P. A., Rifkind, R. A., Conconi, F. & Perl, W.), 1965, **95**, 62P
- inferences on the conformation of ribonucleic acids in, of *Escherichia coli* from the mode of action of ribonuclease II (Artman, M., Silman, N. & Engelberg, H.), 1967, **104**, 878
- influence of amino acid supply on, and protein synthesis of perfused rat liver (Jefferson, L. S. & Korner, A.), 1969, **111**, 703
- isolation and properties of two classes of, from rat liver (Bloemendal, H., Bont, W. S., de Vries, M. & Benedetti, E. L.), 1967, **103**, 177
- isolation of, from cell walls of barley (Jervis, L. & Hallaway, M.), 1969, **114**, 62P
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- liver, rat, effect of dimethylnitrosamine on aggregates of, *in vivo* (Villa-Treviño, S.), 1967, **105**, 625
- liver, rat, effect of feeding with a tryptophan-free amino acid mixture on the ribonucleic acid of (Wunner, W. H., Bell, J. & Munro, H. N.), 1966, **101**, 417
- liver, rat, effect of ribonuclease on (Brentani, R., Brentani, M., Raw, L., Cunha, J. L. M. & Wrotschinsky, N.), 1968, **106**, 263
- liver, rat, removal of rapidly labelled ribonucleic acid from (Dunn, A. J.), 1967, **105**, 47P
- liver, rat, structural ribonucleic acid of (Munro, A. J.), 1964, **91**, 21c
- loss of ribonucleic acid of, during preparation of nucleic acid from certain plant tissues by the detergent-phenol method (Ingle, J. & Burns, R. G.), 1968, **110**, 605

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- membrane-bound, protein synthesis by, in regenerating rat liver (Campbell, P. N., Lowe, E. & Serck-Hanssen, G.), 1967, **103**, 280
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- Tyrosine aminotransferase**, effect of Actidione on hormonal induction and development of, in rat liver (Benson, P. F. & Young, P. M.), 1968, 106, 54r  
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